CLAIMS

We claim:

- 3 1. A pectin comprising soy pectinaceous material having a lightness index above about
- 4 85 L.
- 1 2. The pectin of claim 1, wherein the lightness index is above about 87 L.
- 1 3. The pectin of claim 1, wherein the lightness index is above about 90 L.
- 1 4. The pectin of claim 1, wherein the pectin comprises about 40 wt.% galacturonic acid,
- 2 about 16 wt.% of a mixture of xylose and mannose, about 8 wt.% galactose, about 1.5 wt.%
- rhamnose, about 4 wt.% glucose, about 2.5 wt.% arabinose, about 1.5 wt.% fucose, acout 1
- 4 wt.% Cellulose, about 8 wt.% protein and about 2% moisture.
- The pectin of claim 1, wherein the pectin has about 40% by weight galacturonic acid
- and about 16% by weight of a mixture of xylose and mannose.
- 1 6. The pectin of claim 1, wherein the pectin has about 25% by weight of esterified sugar
- 2 residues and a methoxyl content of about 1.5%.
- 7. The pectin of claim 1, wherein the pectin has a degree of acetylation of about 25%.
- 1 8. The pectin of claim 1, wherein the pectin has a molecular weight of about 21 kD.
- 1 9. The pectin of claim 1, wherein the pectin has an AGA purity of about 55%.
- 1 10. The pectin of claim 1, wherein the pectin has an AGA purity above 60%.

1	11.	A method for producing soy pectin comprising the steps of:	
2		extracting a soybean hull/hypocotyl mixture in a mineral acid at an elevated	
3	tempe	temperature and for a time and at a pH sufficient to extract a pectinaceous soy material from	
4	the mixture;		
5		cooling the extracted pectinaceous material and raising the pH;	
6		separating the extract from the solid residue;	
7		precipitating the pectinaceous material in an alcohol; and	
8		drying the pectinaceous material to form soy pectin.	
1	12.	The method of claim 11, further comprising the step of:	
2		pre-washing the hull/hypocotyl mixture in the presence of a solvent for a time and	
3	temperature sufficient to produces a pre-extraction mixture has a percent transmittance above		
4	about	35% on liquid .	
1	12	The method of claim 12 further comprising the step of	
1	13.	The method of claim 12, further comprising the step of:	
2		soaking the washed hull/hypocotyl mixture in the presence of a solvent for a time,	
3	temperature and pH sufficient to expand the cellular matrix of the washed mixture.		
1	14.	The method of claim 11, further comprising the step of:	
2		post-washing the precipitated pectinaceous material with pressing in the presence of	
3	a solvent sufficient number of times to wash the material.		
1	15.	The method of claim 14, wherein the post-washing step comprising:	
2		three 70% 2-propanol washings and two 100% 2-propanol washings with pressing	
3	after e	each washing.	
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- 1 16. The method of claim 14, further comprising the step of:
- 2 slowly evaporating the 2-propanol from the pectinaceous material for a time sufficient
- 3 to enhance the whiteness of the pectin product.
- 1 17. The method of claim 11, further comprising the step of:
- evaporating the pectinaceous material under a vacuum at an elevated evaporation
- 3 temperature.
- 1 18. The method of claim 11, further comprising the step of:
- 2 grinding the pectin product.
- 1 19. A food stuff comprising a soy pectinaceous material having a lightness index above
- 2 about 85 L.
- 1 20. A food additive comprising a soy pectinaceous material having a lightness index
- 2 above about 85 L.